CONTENTS

Number 1

Katia Passerini and Mary J. Granger	1	A developmental model for distance learning using the Internet
Chiung-Hui Chiu, Chun-Chieh Huang and Wen-Tsung Chang	17	The evaluation and influence of interaction in network supported collaborative concept mapping
John Todman	27	Gender differences in computer anxiety among university entrants since 1992
M. Thelwall	37	Computer-based assessment: a versatile educational tool
Cheng Feng, Hiroaki Ogata and Yoneo Yano	51	Online markup based language learning environment

Number 2

E. Vance Wilson	67	Student characteristics and computer-mediated communication
Maria Ferraris, Stefania Manca, Donatella Persico and Luigi Sarti	77	Managing the change from face-to-face to distance training for SMEs
Neil Selwyn	93	Researching computers and education — glimpses of the wider picture
Kai Hakkarainen, Liisa Ilomäki, Lasse Lipponen, Hanni Muukkonen, Marjaana Rahikainen, Taneli Tuominen, Minna Lakkala and Erno Lehtinen	103	Students' skills and practices of using ICT: results of a national assessment in Finland
Andrew Tolmie and James Boyle	119	Factors influencing the success of computer mediated communication (CMC) environments in university teaching: a review and case study
Stuart Palmer	141	On- and off-campus computer usage in engineering education
	155	Book Reviews

Number 3/4

VIRTUALITY IN EDUCATION
Selected Contributions from the CAL 99 Symposium

D. Squires and J. Underwood	159	Preface
Barry Harper, John G. Hedberg and Rob Wright	163	Who benefits from virtuality?
Mike Sharples	177	The design of personal mobile technologies for lifelong learning
Rosamund Sutherland, Keri Facer, Ruth Furlong and John Furlong	195	A new environment for education? The computer in the home
Alessandro Antonietti and Manuela Cantoia	213	To see a painting versus to walk in a painting: an experiment on sense-making through virtual reality
Daphne Economou, William L. Mitchell and Tom Boyle	225	Requirements elicitation for virtual actors in collaborative learning environments
Andrew Ravenscroft	241	Designing argumentation for conceptual development
P. Light, E. Nesbitt, V. Light and S. White	257	Variety is the spice of life: student use of CMC in the context of campus based study
A. L. Veerman, J. E. B. Andriessen and G. Kanselaar	269	Learning through synchronous electronic discussion
Christine Appel and Tony Mullen	291	Pedagogical considerations for a web-based tandem language learning environment
Jane K. Seale and Alan J. Cann	309	Reflection on-line or off-line: the role of learning technologies in encouraging students to reflect
Osvaldo Luiz de Oliveira and M. Cecília C. Baranauskas	321	The theatre through the computer
Oleg Liber, Bill Olivier and Sandy Britain	327	The TOOMOL project: supporting a personalised and conversational approach to learning
Hugh Miller and Jill Arnold	335	Gender and web home pages
Marlene Sinclair, Anne Lazenbatt, Sydney Salmon and Janet Calvert	341	Telesupport in breastfeeding
	347	Volume Contents and Author Index